

Message Text

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43

ACTION OC-06

INFO OCT-01 EUR-06 ISO-00 CCO-00 /013 W

----- 119621

R 291114Z JAN 74

FM AMEMBASSY BONN

TO SECSTATE WASHDC 0007

C O N F I D E N T I A L SECTION 1 OF 2 BONN 1511

FROM RCO FOR A/OC

QUOTE:

R 281310Z JAN 74

FM CDRUSACCEUR SCHWETZINGEN GER //ACCE-OTD-DB//

INFO RUFHGV/US MISSION GENEVA SWITZERLAND //CEO//

RUFHOL/AMEMB BONN GER //RCO//

R 210007Z NOV 73

FM CDRUSACC FT HUACHUCA AZ //ACC-POA-SW (MR. ANDERSON)//

TO CDRUSACSA FT MONMOUTH NJ //ACCM-SW//

CDRUSACC CONUS FT RITCHIE MD //ACCN-EI//

CDRUSACCEUR SCHWETZINGEN GER //ACCE-EI//

CDRUSACC PAC SCHOFIELD BKS HI //ACCP-OP-OCO//

CDRUSACC SOUTH COROZAL CZ //ACCS-OP//

INFO DA WASH DC //DACE-CSD-S//

ZEN/CDRUSACSLA FT HUACHUCA AZ //AMSEL-CCM-NMP//

CDRUSACC THAI BANGKOK THAILAND

CDRUSACC DET FT MONROE VA

CDRUSCOB BERLIN GER

CDRUSASAFS AUGSBURG GER

CDRUSACC SIG OPS CO HEIDELBERG GER

CDR SIG GP 106 USACCEUR VAIHINGEN GER

CDRUSACC SIG SPT CO FRANKFURT GER

R 151628Z NOV 73

FM DCA WASH DC

TO DIRNSA FT MEADE MD

COMNAVTELCOM WASH DC

CSAF WASH DC

AFCS RICHARDS GEBUR AFB MO

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CDRDCEC RESTON VA

C O N F I D E N T I A L DCA 520/0506/SEC I OF II / NSA FOR S43; ACC F
OR

ACC-POA-SW; NAVTELCOM FOR N02305; CSAF FOR XOCCB AND PRCON; AFCS
FOR DOYTN HY-11/KY-3 INTEROPERABILITY PROBLEM AREAS (U)
THIS MESSAGE IN THREE PARTS, PART I FOR ALL.

1. (U) THE PURPOSE OF THIS MESSAGE IS TO ADVISE ADDRESSEES OF
SUBJECT PROBLEMS.
2. (C) WITH THE INSTALLATION OF THE HY-11, A NUMBER OF SYSTEM
PROBLEMS HAVE BEEN SURFACED. THESE PROBLEMS AND THEIR SUGGESTED
FIXES ARE AS FOLLOWS:
 - A. COOKE CALL DIRECTOR. THIS USER TERMINAL PROVIDES A CAPA-

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BILITY TO CONNECT UP TO SIX EXTENSION PHONES TO THE TRANSMIT LINE.

(1) PROBLEMS:

(A) BACKGROUND NOISE IS COMPOUNDED AS THE NUMBER OF
EXTENSIONS IN USE INCREASE.

(B) AUDIO FEEDBACK IS COMPOUNDED AS THE NUMBER OF
EXTENSIONS IN USE INCREASE.

(C) THE TELEPHONE PRE-AMPLIFIER ADJUSTMENT PROCEDURES
OF THE COOKE CALL DIRECTOR MODEL 134A. SHOWN ON THE COOKE ENGIN-
EERING DRAWING 134-1-00 SHEET 4 OF 20, ARE INCORRECT.

(2) RECOMMENDED SOLUTION:

(A) BACKGROUND NOISE, EQUIP ALL EXTENSION HANDSETS WITH
A PUSH-TO-TALK FEATURE AND/OR INSTALL THE ROANWELL 505D CONFIDENCER.

(B) AUDIO FEEDBACK, REPLACE ALL HANDSET CORDS WITH
SHIELDED CABLE, A MOD KIT IS NOW BEING PROCURED AND WILL BE PRO-
VIDED EACH AUTOSEVOCOM USER IN JAN -FEB 74.

(C) TELEPHONE PRE-AMPLIFIER ADJUSTMENT, THE PRE-AMPLI-
FIER SHOULD BE ADJUSTED UTILIZING THE SAME PROCEDURES USED TO ALIGN
THE KYX-9/9A AS SET FORTH IN THE AUTOSEVOCOM SYSTEMS MAINTENANCE
MANUAL TM 11-5805-620-14/NAVELEX 0967-426-5010/T031W-1-481 OCT 72,
PAGE 8-5 PARA F (3), ACCESS TO 3 IS GAINED BY REMOVING THE TELE-

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PHONE COVER.

B. VOGAD SQUELCH CONTROL.

(1) PROBLEM: THE TSEC/KY-3/3A CAN BE LOCKED IN THE MAXIMUM
GAIN CONDITION DUE TO COMPONENT FAILURE. THIS CONDITION CANNOT BE
DETECTED BY PRESENT TEST AND ALIGNMENT PROCEDURES OUTLINED IN THE
ABOVE MENTIONED MAINTENANCE MANUAL.

(2) RECOMMENDED SOLUTION: CHANGE "300 HZ" TO 800 HZ IN
PARA F (4) (E), PAGE 8-5 OF THE AUTOSEVOCOM SYSTEMS MAINTENANCE

MANUAL.

C. VOGAD AMPLITUDE STATIC RESPONSE:

(1) PROBLEM: THE PROCEDURES PROVIDED ON PAGE 8-5 PARA F (5) ARE NOT SUFFICIENT TO ALLOW FOR DETECTION OF INCORRECT SQUELCH ADJUSTMENTS OR DEFECTIVE E-AQC BOARDS. (TM 11-5805-620-14)

(2) RECOMMENDED SOLUTION:

(A) CHANGE PAGE 8-5, PARA F (5) (D) OF THE AUTOSEVOCOM MAINTANCE MANUAL TO READ "-25DBM" VICE "-15DBM".

(B) ADD STEPS (5) (K) THROUGH (5) (O) AS FOLLOWS:

(5) (K) CONNECT THE UNTERMINATED DB METTER ACROSS THE OSCILLATOR OUTPUT TERMINALS. ADJUST THE OSCILLATOR AMPLITUDE CONTROL FOR A -30DBM INDICATION ON THE DB METTER. REMOVE THE DB METER FROM THE OSCILLATOR OUTPUT TERMINALS AND CONNECT THE UNTER-

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MINATED DB METTER TO J2 OF THE E-AQC BOARD. RECORD THE LEVEL INDICATED ON THE DB METER.

(5) (L) REPEAT STEP (K) USING AN IMPUT LEVEL OF -20DBM, -10DBM AND 0DBM, RECORD THE OUTPUT LEVELS AT J2.

(5) (M) THE OUTPUT READING AT J2 WITH A 0 DBM INPUT SHOULD BE THE SAME AS OBTAINED IN STEP (5) (H).

(5) (N) THE OUTPUT READING OBTAINED IN STEI (L) SHOULD BE WITHIN THE FOLLOWING TEOLERENCES USING THE OUTPUT LEVEL OBTAINED WITH THE 0DBM INPUT AS THE REFERENCE.

INPUT	OUPUT AT J2
0DBM	REFERENCE (SHOULD BE BETWEEN -4DBM AND 0DBM)
-10DBM	LESS THAN 1 DB BELOW REFERENCE
-20DBM	MORE THAN 8 DB BELOW REFERENCE
-30DBM	MORE THAN 16 DB BELOW REFERENCE

NOTE: FAILURE TO MEET THESE REQUIREMENTS INDICAES AN INCORRECT VOGAD SQUELCH ADJUSTMENT OR A DEFECTIVE E-AQC BOARD.

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(5) (O) REMOVE THE DB METER TEST LEAD FROM J2 OF THE E-AQC BOARD.

D. HY-11 SYNC.

(1) PROBLEM: THE CCU WILL NOT ALLOW FOR ERRORS DURING

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THE SYNC CYCLE, THIS FACTOR CAUSES THE MAJORITY OF THE INCOMPLETED CALLS.

(1) RECOMMENDED SOLUION:

(A) THE CAU IS NOW BEING TESTED AT THE 9.6 KBS RATE IF SUCCESSFUL, THE CAU, WHICH IS NOW BEING USED WITH THE HY-2 NBTU, WILL REPLACE THE CCU AND CIU A HY-11 LOCATIONS. THE CAU WILL TOLERATE UP TO SEVEN ERRORS DURING THE CYNK CYCLE.

(B) SET COMPROMISE EQUALIZER SWITCH ON RIXON DS 9601
MODEM TO THE "FULL" COMPROMISE POSITION.

E. HY-11 INPUT/OUTPUT ADJUSTMENT IS CRITICAL.

(1) PROBLEM: ADJUSTMENTS FOR THE RECEIVER AUDIO OUTPUT
ARE NEAR THE LIMITS OF ADJUSTMENT WHICH CAUSES VARIED LEVELS OF
OUTPUT.

(2) RECOMMENDED SOLUTION:

(A) ADJUST THE TSEC/HY-11 RECEIVER GAIN TO OBTAIN A
PLUS 1 DBM OUTPUT WITH A PLUS 10 DBM INPUT. THE BASIC TEST SET
UP IS GIVEN IN MAINTENANCE MANUAL TSEC/HY-11 KAM-278/TSEC. PAGE
6-29, STEP 4. THE ADJUSTMENT FOR A PLUS 1 DBM OUTPUT SHOULD BE
MADE ONLY AFTER THE REQUIREMENTS OF STEP 4 HAVE BEEN MET.

(3) INSTALL A 9 DB PAD IN THE LINE CONNECTED TO THE

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TRUNK TSEC/KY-3/3A TRUNK LINE IN JACK.
PART II FOR NSA

3. (C) REQUEST YOU PERFORM THE FOLLOWING TASKS AND BE PREPARED
TO DISCUSS YOUR FINDING AND CORRECTIVE COURSES OF ACTION DURING
THE 27 NOV 73 0900 MEETING AT DCA HQS.

A. EVALUATE THE ABOVE PROBLEM AREAS PERTAINING TO TSEC EQUIP-
MENTS.

B. PREPARE CHANGES TO THE APPROPRIATE PUBLICATIONS AND/OR
PROVIDE AUTHORIZATION FOR FIELD ACTIVITIES TO MAKE IMMEDIATE CHANGES
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IN ALIGNMENT PROCEDURES PENDING FORMAL PUBLICATION OF CHANGES.

C. PROVIDE IMMEDIATE PUSH-TO-TALK MODIFICATION INSTRUCTIONS
AND AUTHORITY TO MODIFY THE WORLDWIDE SECURE VOICE CONFERENCING
SYSTEM (WWSVCS) CONFERENCE KYX-9/9A HANDSETS.

PART III FOR ACC, COMNAVTELCOM, CSAF, AFCS AND DCEC.

4. (C) REQUEST YOU PERFORM THE FOLLOWING TASKS.

A. EVALUATE THE COOKE CALL DIRECTOR PROBLEMS. IF USED IN THE
WWSVCS AND RECOMMENDED SOLUTIONS FAIL TO CORRECT THESE PROBLEMS.
THE COOKE CALL DIRECTOR SHOULD BE REMOVED FROM USE IN THE WWSVCS
UNTIL THE SHIELDED CABLE MODIFICATION KIT IS RECEIVED.

B. INSTRUCT ALL HY-11 NBTU LOCATIONS TO SET THE COMPROMISE.

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ACTION OC-06

INFO OCT-01 EUR-06 ISO-00 CCO-00 /013 W

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R 291114Z JAN 74

FM AMEMBASSY BONN

TO SECSTATE WASHDC 0008

C O N F I D E N T I A L SECTION 2 OF 2 BONN 1511

FROM RCO FOR A/OC

EQUALIZER SWITCH ON THE RIXON DS 9601 MODEM TO THE "FULL" COMPROMISE POSITION, TEST RESULTS BY COMPARING BOTH LOCAL AREA AND LONG HAUL CALL RESULTS AND PROVIDE COMMENTS.

C. INSTRUCT EACH HY-11 INSTALLATION TO ADJUST THE HY-11 INPUT OUTPUT LEVELS AND INSTALL THE 9 DB PAD AS DESCRIBED IN PARA 2E ABOVE. TEST AND PROVIDE COMMENTS.

D. EVALUATE THE VOGAD SQUELCH CONTROL AND AMPLITUDE STATIC RESPONSE RECOMMENDED SOLUTIONS IN PARA 2B AND C ABOVE.

E. PROVIDE THE RESULTS OF YOUR EVALUATION TO THIS HQS, ATTN: CODE 520 AND 440 WITH INFO FURNISHED DIRNSA ATTN: S423 ANJ CDR DCEC ATTNGC R530 AS SOON AS POSSIBLE BUT BEFORE 30 DEC 73.

GDS 31 DEC 79.

UNQUOTE. HILLENBRAND

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Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: n/a
Control Number: n/a
Copy: SINGLE
Draft Date: 29 JAN 1974
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Authority: martinml
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 28 MAY 2004
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1974BONN01511
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: DG ALTERED
Executive Order: GS
Errors: N/A
Film Number: n/a
From: BONN
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1974/newtext/t19740110/aaaaaipu.tel
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Original Classification: CONFIDENTIAL
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
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Previous Classification: CONFIDENTIAL
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Review Content Flags:
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Review Exemptions: n/a
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Review Markings:

Declassified/Released
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EO Systematic Review
30 JUN 2005

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Review Transfer Date:
Review Withdrawn Fields: n/a
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Status: NATIVE
Subject: SUGGESTED SOLUTIONS TO HY-11 PROBLEMS
TAGS: ASUP, GE
To: STATE
Type: TE
Markings: Declassified/Released US Department of State EO Systematic Review 30 JUN 2005